

Title (en)

Drive device and drive method for a cold cathode fluorescent lamp

Title (de)

Anordnung und Verfahren zum Steuern einer Kaltkathoden -Entladungslampe

Title (fr)

Dispositif et méthode pour commander une lampe à décharge à cathodes froides

Publication

EP 1220580 B1 20070523 (EN)

Application

EP 01130174 A 20011219

Priority

JP 2000402001 A 20001228

Abstract (en)

[origin: EP1220580A2] The present invention relates to a drive device for one or more series-connected cold cathode fluorescent lamps having an electrical terminal at each end. The drive device has a piezoelectric transformer for converting by means of the piezoelectric effect a primary ac input applied to primary electrodes to a secondary ac output, which is removed from secondary electrodes; a drive arrangement for applying the primary ac input to the primary electrodes; and a brightness control circuit for controlling brightness. The brightness control circuit detects the phase difference between the secondary ac output and the primary ac input. When the detected phase difference is greater than a specified phase difference, the drive arrangement reduces the power of the primary ac input applied to the primary electrodes. If the detected phase difference is less than the specified phase difference, the drive arrangement increases the power of the primary ac input applied to the primary electrodes. <IMAGE>

IPC 8 full level

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CPC (source: EP US)

H05B 41/2822 (2013.01 - EP US); **H05B 41/2855** (2013.01 - EP US); **H05B 41/392** (2013.01 - EP US)

Cited by

DE202004005184U1; US7218533B2; WO2004055962A3; WO2004055961A3

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EP 1220580 A2 20020703; **EP 1220580 A3 20040825**; **EP 1220580 B1 20070523**; CN 1276689 C 20060920; CN 1362850 A 20020807; DE 60128535 D1 20070705; DE 60128535 T2 20080131; JP 2002203689 A 20020719; US 2002121865 A1 20020905; US 6566821 B2 20030520

DOCDB simple family (application)

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